

A METHOD AND APPARATUS FOR SEGMENTING AN IMAGE USING A
COMBINATION OF IMAGE SEGMENTATION TECHNIQUES

ABSTRACT OF THE DISCLOSURE

5 This invention relates to a method and apparatus for segmenting an image
using a combination of image segmentation techniques. More particularly, the
invention is directed to an improved image segmentation technique for use in an
image processing system that performs at least two distinct image segmentation
processes on an image and combines the results to obtain a combined multi-layer
representation of the image that can be suitably processed. In a specific example,
10 a block based segmentation technique is performed on an image to generate a
MRC (mixed raster content) representation -- having foreground, background and
selector layers. A pixel based segmentation technique is also performed on the
image to generate rendering hints. The MRC representation and the rendering
hints are then combined to obtain a four (4) layer representation of the image. The
15 four layer representation is subsequently processed as required by the image
processing system, e.g. compressed and stored.